Format No: CP/TF/01

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

**Lab ID** : CP-2018-12-12-64 **Date: 06-08-2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 02-08-2018

**Sample ID No** : 2018-12-12-64 /01

**Sample Type** : Birla Super 53grade

**Reference to BIS codes** :
IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

**Date of test** : 03-08-2018

**Environmental Conditions during test** : Temperature: 26°C
Humidity: 72%

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.86 | – |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 293.2 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.14 | – |
| 4 | Standard Consistency (%) | 27.5% | Not specified |
| 5 | Initial Setting time | 156 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 277 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1.5mm | Not more than 10 mm |

**Note:**

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig. Date BANGALORE


****End of Report****

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-12-12-64** **Date: 31-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP,Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura. |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 02-08-2018 |
| **Sample ID No** | : | 2018-12-12-64 /01 |
| **Sample Type** | : | Birla Super 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| **Date of test** | : | 03-08-2018 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 29.0N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.5N/mm$^2$ | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 57.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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**FOR CIVIL Pro.**

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL Pro Sig..... Date..... BANGALORE


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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-12-12-64** **Date: 06-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP,Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura. |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 02-08-2018 |
| **Sample ID No** | : | 2018-12-12-64 /02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 02-08-2018 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 218 | 218 | 1.5 | 98.5 | 90-100 |
| 3 | 20 mm | 7289 | 7507 | 50.0 | 50.0 | 30-70 |
| 4 | 10 mm | 5102 | 12609 | 84.1 | 15.9 | 10-35 |
| 5 | 4.75 mm | 2185 | 14794 | 98.6 | 1.4 | 0-5 |
| 6 | Pan | 206 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2018-12-12-64** **Date: 06-08-2018**

**Sample ID No** : 2018-12-12-64 /02(a)

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.8 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 12.5 | |
| 3 | Specific Gravity | 2.62 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.48 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.51 | _ |
| 6 | Water Absorption(%) | 18 | _ |

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE


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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-12-12-64** **Date: 04-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP,Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura. |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. |
| **Customer Reference** | : | BBMP/EE/BTP/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 02-08-2018 |
| **Sample ID No** | : | 2018-12-12-64 /02(b) |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 02-08-2018 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 152 | 152 | 3.0 | 97.0 | 90-100 |
| 3 | 10 mm | 3102 | 3254 | 65.1 | 34.9 | 25-55 |
| 4 | 4.75 mm | 1598 | 4852 | 97.0 | 3.0 | 0-10 |
| 5 | Pan | 148 | 5000 | 100 | 0 | _ |



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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2018-12-12-64** **Date: 04-08-2018**

**Sample ID No** : 2018-12-12-64 /02(b)

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 13.1 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.6 | |
| 3 | Specific Gravity | 2.59 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.51 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.56 | _ |
| 6 | Water Absorption(%) | 0.22 | _ |
| 7 | Aggregate crushing Value(%) | 24.1 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 22.7 | 30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface. |

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signature
**Quality Manager**

Assistant Executive Engineer, Yeshwanthpur Sub Division, B.B.M.P.

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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2018-12-12-64** **Date: 06-08-2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 02-08-2018

**Sample ID No** : 2018-12-12-64 /03

**Sample Type** : Fine Aggregate

**Reference to BIS codes** : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

**Date of test** : 02-08-2018

**Total weight taken** : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 27 | 27 | 2.7 | 97.3 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 55 | 82 | 8.2 | 91.8 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 239 | 321 | 32.1 | 67.9 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 205 | 526 | 52.6 | 47.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 203 | 729 | 72.9 | 27.1 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 191 | 920 | 92.0 | 8.0 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 80 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



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# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2018-12-12-64** **Date: 06-08-2018**

**Sample ID No** : 2018-12-12-64 /03

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.85 | _ |
| 2 | Specific Gravity | 2.54 | _ |
| 3 | Material finer than 75 micron(%) | 5.0 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

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**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

Assistant Executive Engineer,
Kodigehalli Sub Division,
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# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-12-12-64** **Date: 16-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP,Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura. |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 10-08-2018 |
| **Sample ID No** | : | 2018-12-12-64 /06 |
| **Sample Type /Size** | : | Precast Cover Slab |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 10/08/2018 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 165.51 | 200.48 | 1.116 | 21511 | 80.9 | 3.8 | 3.5 | 4.4 |
| 2 | Cover Slab-2 | 165.49 | 200.52 | 1.122 | 21506 | 82.3 | 3.8 | 3.6 | 4.4 |
| 3 | Cover Slab-3 | 165.50 | 200.51 | 1.118 | 21508 | 81.5 | 3.8 | 3.5 | 4.4 |

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NDD
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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# TEST REPORT OF PRECAST COVER SLAB

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-2018-12-12-64** | **Date: 16-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. | |
| **Address** | : | Kodigehalli Sub Division, BBMP,Bangalore. | |
| **Project Name** | : | Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura. | |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. | |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/101/2017-18 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 10-08-2018 | |
| **Sample ID No** | : | 2018-12-12-64 /06 | |
| **Sample Type /Size** | : | Precast Cover Slab | |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete | |
| **Date of test** | : | 10/08/2018 | |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

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NDD
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Assistant Executive Engineer,
Kodigehalli Sub Division,
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## TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-12-12-64** **Date: 08-08-2018** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP,Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura. |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010. |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/101/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 07-08-2018 |
| **Sample ID No** | : | 2018-12-12-64 /04 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 07-08-2018 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.393 | 515 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.616 | 526 | 672 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.888 | 546 | 668 | 20.0% | Satisfactory | Satisfactory |

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**R KARTHIK RECHAN**
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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 27/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-08-2018

**Sample ID No** : 2018-12-12-64 /01

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.52 X 150.50 X 150.47 | 22653 | 8.312 | 389.6 | 17.2 | 17.5 |
| 2 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.54 X 150.53 X 150.43 | 22661 | 8.331 | 398.8 | 17.6 | |
| 3 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.56 X 150.33 X 150.48 | 22634 | 8.345 | 402.9 | 17.8 | |

**Note:**

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NDP
DE(Nzn)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL PRO Sig..... Date..... BANGALORE


****End of Report****

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Certificate No.: TC- 5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 17/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-08-2018

**Sample ID No** : 2018-12-12-64 /02

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 17/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.46 X 150.38 X 150.54 | 22626 | 8.312 | 538.5 | 23.8 | 23.4 |
| 2 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.56 X 150.37 X 150.48 | 22640 | 8.331 | 511.7 | 22.6 | |
| 3 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.38 X 150.51 X 150.44 | 22634 | 8.345 | 536.4 | 23.7 | |

**Note:**

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Samples will be disposed after 90 days from the date of issue of test certificate

NOD
DE(W)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL PRO BANGALORE Sig..... Date.....


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 27/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-08-2018

**Sample ID No** : 2018-12-12-64 /03

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.48 X 150.52 X 150.43 | 22650 | 8.312 | 389.6 | 17.2 | 17.3 |
| 2 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.39 X 150.52 X 150.44 | 22637 | 8.331 | 398.4 | 17.6 | |
| 3 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.34 X 150.56 X 150.37 | 22635 | 8.345 | 389.3 | 17.2 | |

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NDD
DE(12)

Assistant Executive Engineer
Kodigehalli Sub Division,
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Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL PRO Sig Date BANGALORE


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 17/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-08-2018

**Sample ID No** : 2018-12-12-64 /04

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 17/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.56 X 150.37 X 150.46 | 22640 | 8.312 | 538.8 | 23.8 | 23.6 |
| 2 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.48 X 150.52 X 150.51 | 22650 | 8.331 | 530.0 | 23.4 | |
| 3 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.54 X 150.48 X 150.39 | 22653 | 8.345 | 536.9 | 23.7 | |

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NOD
DE(B)

Assistant Executive Engineer.
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**R KARTHIK RECHAN**
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**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 27/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-08-2018

**Sample ID No** : 2018-12-12-64 /05

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.48 X 150.53 X 150.36 | 22652 | 8.312 | 394.1 | 17.4 | 17.6 |
| 2 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.45 X 150.56 X 150.38 | 22652 | 8.331 | 398.7 | 17.6 | |
| 3 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 27/08/2018 | 150.54 X 150.38 X 150.47 | 22638 | 8.345 | 405.2 | 17.9 | |

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

NDP Dt[illegible]

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 17/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-08-2018

**Sample ID No** : 2018-12-12-64 /06

**Customer ID** : Drain Bottom Slab Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 17/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.45 X 150.58 X 150.53 | 22655 | 8.312 | 539.2 | 23.8 | 23.8 |
| 2 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.54 X 150.56 X 150.35 | 22665 | 8.331 | 541.7 | 23.9 | |
| 3 | Drain Bottom Slab Concrete | M20 | 20/08/2018 | 17/09/2018 | 150.54 X 150.34 X 150.49 | 22632 | 8.345 | 536.4 | 23.7 | |

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NDP
AE(NH)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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****End of Report****

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 29/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-08-2018

**Sample ID No** : 2018-12-12-64 /01

**Customer ID** : Drain Side wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 29/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side wall Concrete | M20 | 22/08/2018 | 29/08/2018 | 150.38 X 150.48 X 150.56 | 22629 | 8.312 | 389.2 | 17.2 | 17.4 |
| 2 | Drain Side wall Concrete | M20 | 22/08/2018 | 29/08/2018 | 150.38 X 150.48 X 150.56 | 22629 | 8.331 | 398.3 | 17.6 | |
| 3 | Drain Side wall Concrete | M20 | 22/08/2018 | 29/08/2018 | 150.48 X 150.37 X 150.54 | 22628 | 8.345 | 393.7 | 17.4 | |

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL Pro Sig..... Date..... BANGALORE



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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 19/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-08-2018

**Sample ID No** : 2018-12-12-64 /02

**Customer ID** : Drain Side wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 19/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side wall Concrete | M20 | 22/08/2018 | 19/09/2018 | 150.47 X 150.56 X 150.38 | 22655 | 8.312 | 539.2 | 23.8 | 23.6 |
| 2 | Drain Side wall Concrete | M20 | 22/08/2018 | 19/09/2018 | 150.58 X 150.38 X 150.48 | 22644 | 8.331 | 527.6 | 23.3 | |
| 3 | Drain Side wall Concrete | M20 | 22/08/2018 | 19/09/2018 | 150.54 X 150.37 X 150.48 | 22637 | 8.345 | 536.5 | 23.7 | |

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NDP
AE(WZ)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL Pro Sig..... Date..... BANGALORE


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 23/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-08-2018

**Sample ID No** : 2018-12-12-64 /05

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.56 X 150.48 X 150.35 | 22656 | 8.312 | 290.0 | 12.8 | 12.8 |
| 2 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.44 X 150.54 X 150.47 | 22647 | 8.331 | 292.1 | 12.9 | |
| 3 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.44 X 150.48 X 150.37 | 22638 | 8.345 | 287.5 | 12.7 | |

**Note:**

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

Assistant Executive Engineer.
Kodigehalli Sub Division,
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Bangalore.

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 13/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-08-2018

**Sample ID No** : 2018-12-12-64 /06

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 13/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.38 X 150.48 X 150.54 | 22629 | 8.312 | 402.8 | 17.8 | 17.7 |
| 2 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.44 X 150.52 X 150.38 | 22644 | 8.331 | 405.3 | 17.9 | |
| 3 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.46 X 150.52 X 150.33 | 22647 | 8.345 | 394.1 | 17.4 | |

**Note:**

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NDD
DE(NDD)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 29/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-08-2018

**Sample ID No** : 2018-12-12-64 /03

**Customer ID** : Drain Side wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 29/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side wall Concrete | M20 | 22/08/2018 | 29/08/2018 | 150.46 X 150.54 X 150.37 | 22650 | 8.312 | 396.4 | 17.5 | 17.5 |
| 2 | Drain Side wall Concrete | M20 | 22/08/2018 | 29/08/2018 | 150.44 X 150.56 X 150.35 | 22650 | 8.331 | 398.6 | 17.6 | |
| 3 | Drain Side wall Concrete | M20 | 22/08/2018 | 29/08/2018 | 150.38 X 150.54 X 150.39 | 22638 | 8.345 | 391.6 | 17.3 | |

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**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 19/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-08-2018

**Sample ID No** : 2018-12-12-64 /04

**Customer ID** : Drain Side wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 19/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side wall Concrete | M20 | 22/08/2018 | 19/09/2018 | 150.54 X 150.37 X 150.46 | 22637 | 8.312 | 538.8 | 23.8 | 23.7 |
| 2 | Drain Side wall Concrete | M20 | 22/08/2018 | 19/09/2018 | 150.54 X 150.48 X 150.35 | 22653 | 8.331 | 534.6 | 23.6 | |
| 3 | Drain Side wall Concrete | M20 | 22/08/2018 | 19/09/2018 | 150.52 X 150.48 X 150.37 | 22650 | 8.345 | 536.8 | 23.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 23/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-08-2018

**Sample ID No** : 2018-12-12-64 /01

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.44 X 150.56 X 150.37 | 22650 | 8.312 | 283.1 | 12.5 | 12.6 |
| 2 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.54 X 150.38 X 150.45 | 22638 | 8.331 | 285.2 | 12.6 | |
| 3 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.54 X 150.43 X 150.35 | 22646 | 8.345 | 287.6 | 12.7 | |

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Certificate No.: TC- 5548

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 13/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-08-2018

**Sample ID No** : 2018-12-12-64 /02

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 13/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.48 X 150.56 X 150.43 | 22656 | 8.312 | 403.3 | 17.8 | 17.5 |
| 2 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.55 X 150.38 X 150.48 | 22640 | 8.331 | 391.7 | 17.3 | |
| 3 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.38 X 150.48 X 150.37 | 22629 | 8.345 | 393.7 | 17.4 | |

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**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 23/08/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-08-2018

**Sample ID No** : 2018-12-12-64 /03

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.54 X 150.52 X 150.43 | 22659 | 8.312 | 283.2 | 12.5 | 12.7 |
| 2 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.52 X 150.48 X 150.43 | 22650 | 8.331 | 292.2 | 12.9 | |
| 3 | PCC | M15 | 16/08/2018 | 23/08/2018 | 150.52 X 150.42 X 150.33 | 22641 | 8.345 | 287.5 | 12.7 | |

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-12-12-64** **Date: 13/09/2018**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP,Bangalore.

**Project Name** : Improvements to Roads and Drains of Kashinagara main road (Balance Work) In Ward No 07 Byatarayanapura.

**Agency** : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

**Customer's Reference** : BBMP/EE/BTP/WO/101/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 18-08-2018

**Sample ID No** : 2018-12-12-64 /04

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 13/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.54 X 150.48 X 150.35 | 22653 | 8.312 | 403.2 | 17.8 | 17.6 |
| 2 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.45 X 150.56 X 150.42 | 22652 | 8.331 | 400.9 | 17.7 | |
| 3 | PCC | M15 | 16/08/2018 | 13/09/2018 | 150.54 X 150.35 X 150.42 | 22634 | 8.345 | 393.8 | 17.4 | |

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